



The Center for Information Management

Program Status Review

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The Center for Information Management

Defense Information Systems Agency

15 November 1993

Good Morning LTG Short.

The purpose of today's Program Status Review is to provide a laydown for you of key accomplishments, current actions, and efforts planned for FY94 for the various elements of CIM. I note with pleasure that today is the 15th as opposed to our last PSR which fell on Friday the 13th.



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AGENDA

- **Accomplishments Since Last PSR**
- **Current Activities**
- **Planned FY94 Efforts**
- **Issues**

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We have come a long way in the past 90 days. Since our last review we have closed out the fiscal year, initiated new projects, and are beginning to see the realization of solid benefits for our customer base.

I have structured this presentation to give you a quick insight to our accomplishments, activities, and plans. I have also added some issues that I believe are appropriate for discussion in this forum.



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Major Events Since Last PSR

- **Data Standardization Acceleration**
- **Data Reverse Engineering**
- **C2 Core Migration Model**
- **Center for FPI Expertise**
- **Ada Summit**
- **ARMS Center - Chambersburg**
- **FY94 CIM Operating Plan**

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On this chart I want to show what I think are some of our most significant involvements since the last PSR. The key events highlighted here will be discussed in detail as we cover the particular program area.



Center for Information Management Data Administration Program Accomplishments

- **Started Accelerating Data Standardization**
- **Initiated Data Reverse Engineering Projects for Migration Systems**
- **Published C2 Core Data Model**
- **Completed Update of DDRS to Support Acceleration Efforts**
- **Trained 900 DoD Students in Data Admin Procedures / Skills**
- **Data Administration and Database Procedures Completed, and in Coordination**

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Technical reviews on JOPES and Army standard data elements in support of the acceleration of Data Standardization are expected to produce 800 proposed DoD standard data elements by 30 Nov 93. .

Several data reverse engineering efforts are in various stages of completion for migration systems within the Personnel, Medical, Finance, and Acquisition Functional areas. Activities include: Reverse engineering CHAMPUS for Health Affairs; Designing a Health Affairs Enterprise Model Mgmt System, and Provide mapping between the DoD Enterprise and Military Health Services Systems Models.

The C2 Core Data Model was published on 1 Sep 93 and distributed for review and comments by the Components and Functionals. The Model was created from the Army Tactical Command and Control Information System Battlefield Generic Hub and Data Model. The C2 Functional Data Administrator (CFS) will respond to all comments and has responsibility for republishing the Model.

The Defense Data Repository System enhancements were completed to support the acceleration effort. To date, the DDRS has 407 users. DDRS software and hardware upgrades are planned

So far, approximately 900 students across DoD and other Federal agencies have been trained in Data Administration procedures and skills. Video training tapes are available.

The DoD Data Administration Procedures manual (DoD 8320.1-M) was distributed for formal coordination IAW SD 106 process. Our other major procedure DoD 8320.1-M-4, the manual for DoD Database Administration was distributed for informal review.



Center for Information Management Data Administration Program Current Activities

- **Initiated Business Process Reengineering Workshop for DoD Data Admin with Reps from DoD Components**
- **Undertaking Analysis of Migration System Data Elements, Currently Stored in DDRS**
- **Preparing C2 Data Elements for Standardization**
- **Conducting Technical Reviews of Logistics Data Model**
- **Actively Soliciting and Processing Data Models from Other Functional Areas**

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We are organizing a Business Process Reengineering Workshop for the DoD Data Administration community. We anticipate representatives from DLA, DoD IG, DISA-CIO, and the MILDEPS.

In an effort to maximize the benefit of past and current data administration efforts, we are undertaking a scrub of the data elements presently stored in the DDRS to ascertain their utility.

Working with the C2 community as they have developed and published a core set of data elements (JUDI) which they now have published. This involves working with the C2 FDAd staff, and others who have performed extensive analysis and reduction of data elements in their system. C2 is now reviewing the JUDI data requirements in light of the C2 Core Data Model that has been recently completed.

We are working with the Logistic community for prioritizing models for processing.

To accelerate the development data elements of the DoD Data Model, the Data Administration Group is teaming with the Functional and Component communities to conduct multiple concurrent projects to rapidly extend the DoD Data Model.



Center for Information Management Data Administration Planned FY94 Efforts

- **FY94 Data Administration Planned Actions Will Focus
on the Acceleration of Data Standardization as Directed by
Recent DepSecDef Guidance**

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The DepSecDef guidance in his October directive reflects the following priority in resource allocation:

- Work directly data standardization acceleration
- Support Functionals and Components in their data migration plans, data modeling, and data standards development efforts, and
- Simplify and streamline data administration and data standardization processes.

I have reallocated Data Administration personnel and FY94 resources to data standard acceleration efforts. My estimate of the breakout reflects 67% of the contract dollars and 80% of the personnel.



Center for Information Management Information Engineering Accomplishments

- **Opened Center for Functional Process Improvement (FPI) Expertise on 21 Sep 93**
- **Conducted 7 Workshops Using Groupware at the Center**
- **Produced a Video -- "The Center for FPI Expertise"-- for use in a Brief to DepSecDef**
- **Briefed and Demonstrated FPI Tools to 23 Organizations**
- **Simplified the Cost Structure of the Functional Economic Analysis Model (FEAM) and Distributed Version 3.0 for Beta Testing**

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The Center for FPI Expertise was opened at Sequoia Plaza in Arlington to provide a "one stop shop" where organizations can obtain products and services to perform Functional Process Improvement. The Center includes a demonstration and workshop room where people can learn about and use the various tools of FPI. These include IDEF modeling, Activity Based Costing, and Functional Economic Analysis Modeling.

The Center has a meeting room where Groupware technology, a network of personal computers with software applications, can facilitate creative problem solving. This technology also helps gain group consensus through various automated promptings and techniques.

Another success that surrounds the Center was the production of a video that presents the "DoD FPI Story". The video is part of a briefing for DepSecDef Perry.

We have also used the demonstration room at the Center to brief and demonstrate our array of FPI tools. So far we briefed 11 elements from DoD, 2-Navy, 1-Air Force; 4-civilian agencies including USDA, DOT, HHS, and the FAA. Five-private industry firms, i.e., IBM, CACI, LMI, Grumman, and Ernest and Young.



Center for Information Management Information Engineering Current Activities

- **Providing Tech Support and Tools to the Global Command & Control System (GCCS) Project, and PACOM, to Build and Analyze Information Systems Architectures**
- **Providing FPI Workshop Support:**
 - DDOCRS on CONOPS for DISA-like Organizations
 - OSD Publications
 - DoD Software Reuse Initiative
- **Supporting ASD(PA&E) Program Reviews -- 3 Prototype Efforts -- to Integrate FEA and Traditional AIS Life Cycle Cost / Benefit Analysis**

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We are presently supporting the Global Command and Control System project and PACOM. Our efforts include technical support and providing a tool called ADAPT, which stands for Architectures Design, Analysis, and Planning Tool. This work is helping to display the system baseline global architecture.

The Center's Groupware Facility is currently supporting workshops for:

- The DDOCRS effort for Concept of Operations for DISA-like organizations.
- The IDEF modeling of Navy Publications Management, and
- A strategic planning session for the DoD Software Reuse Initiative.

We are currently working with ASD(PA&E) in three prototype functional areas to help document the strengths and weaknesses associated with integrating Functional Economic and Life-Cycle Cost/Benefit Analytical techniques. The three prototype functional areas are Medical Logistics, Recruiting, and Command and Control Information Processing System..



Center for Information Management Information Engineering Planned FY94 Efforts

- **Host Additional Workshops in the Center for FPI Expertise**
 - **Follow-on Ada Dual-Use**
 - **DoD Visual Information Scoping**
 - **Defense Medical System Support Center Scoping**
- **Provide FPI Tech Support to Internal DISA Organizations**
- **Continue to Provide FPI Loaner Tools and Briefings on FPI Methodology and Tools**

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Our FPI Expertise Center will continue to support FPI workshops. Some of the currently planned efforts include the follow-on Ada Dual-Use Workshop, a scoping workshop to assist the DoD Visual Information function, and another scoping workshop for the Defense Medical System Support Center.

Organizations internal to DISA have received and will continue to receive briefings, tool demonstrations, loaner tools, and use of the Center's facilities to help develop DISA's FPI efforts.



Center for Information Management Software Engineering Accomplishments

- **Ada Dual-Use Workshop (19-20 Oct 93)**
- **Defense Software Repository System
Version 5 Demonstrated Interoperability**
- **DoD Software Process Assessment Contract Actions**
- **Software Engineering Environments (SEE)**

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The workshop was attended by 200 software professionals and addressed issues in the areas of academia, government, vendors, and industry. The proceedings were documented and presented on 8 Nov to an Executive committee chaired by ASD(C3I). Based upon the committee's direction, we have begun development of a detailed Ada Dual-Use Strategy and Plan.

On 29 Oct, we completed testing of Defense Software Repository System (DSRS) Version 5. This release provides capability for heterogeneous interoperability with other DoD software repositories. The Initial Operating Capability with Central Archive Reusable Defense Software (CARDS) and Asset Source for Software Engineering Technology (ASSET) is now on-line.

A contract was awarded to the Software Productivity Consortium to provide software process assessment services to DoD CDA's. So far, three assessments are in progress and 16 more have been scheduled over the next five months.

We conducted the Increment II SEE Evaluation (Object-Oriented Analysis and Design/Ada SEE Configuration Environment). Additionally, the Increment II SEE Evaluation, RATIONAL Environment, was conducted.



Center for Information Management Software Engineering Current Activities

- **Ada**
- **DoD Software Reuse Initiative**
- **CIM Software System Migration Strategy**
- **Software Center of Excellence**
- **I-CASE Contract Award**
- **I-CASE Technology Transfer**

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We are placing special emphasis on the development of the Ada Dual-Use Strategy. Additionally, our efforts in the Ada area are focused on facilitating the transfer of the Ada Joint Project Office into DISA along with establishing a budget for the project office.

We are drafting the DoD response to the HAC Report on the DoD Software Initiative.

I am currently engaged in developing a cohesive strategy that fully integrates the Center's Directorates in the development of an overall CIM Software System Migration Strategy.

We developed a proposal for the creation of a Center for Software Excellence within JIEO. This Center would be responsible for the total software life cycle from requirement through user acceptance.

We anticipate the I-CASE contract award to be made this fiscal quarter. Concurrently we are developing an I-CASE Reengineering Workshop

In the area of I-CASE Technology Transfer, we have held two Organizational Change Workshops for I-CASE pilot project teams..



Center for Information Management **Software Engineering Planned FY94 Efforts**

- **Complete Domain Model for Procurement, Solicitation and Award**
- **I-CASE Implementations**
- **Implementation of the Ada Dual-Use Strategy**
- **Software Reengineering**

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The Domain Model effort should be completed in early CY 1994.

Pending successful acceptance testing we expect I-CASE will begin implementation at 28 pilot sites.

We are developing an Ada Dual-Use Strategic Plan and expect its completion in CY 1994.

In the area of software reengineering we are working on the following documents:

- Software Reengineering Selection Criteria.
- Software Reengineering Process Model
- Software Reengineering Cost/Benefit methodology, and
- Software Reengineering Project Planning Guide



Center for Information Management Infrastructure Accomplishments

- **DARMP**(Defense Automation Resources Mgmt Program)
 - **ARMS Migration to IPC-Chambersburg**
(First DISA DoD-wide AIS at a Megacenter)
- **Capacity Management**
 - **Skills Repository Now Operational**
 - **DoD-wide DII FPI Complete**
- **IT COTS Product Management**
 - **SBIS OSE Validation Document Out for Intra-DISA Review (Courtesy CFS and Logicon)**
 - **Survey Results show 30% of DoD's PC/LAN Software Purchased from IDIQ's; 60% from Open Market or GSA Schedule at Little or No Discount**

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DARIC successfully rehosted DARIC's Automation Resources Management System (ARMS), from a DLA Data Center at Cameron Station to IPC-Chambersburg. This is DISA's first DoD-wide information system to be run in a megacenter.

We have recently developed a DoD-wide repository of Capacity Management for personnel and the environments and services in which they have skills. This repository is accessible on-line to users as a subsystem of ARMS.

We have also recently completed a Functional Process Improvement effort that addressed Capacity Management issues of the DII. We expect the recommendations of this work to be embodied in an OSD policy directive which will assign appropriate responsibilities to DISA and the MILDEPS.

The first draft of the assessment of SBIS compliance with Open Systems standards has been released. This draft was developed for CIM by the Center for Standards. The examination gave SBIS high marks for compliance with the Technical Reference Model.

We have conducted a random sampling of 45 LAN's in DoD and found that 60% of the PC/LAN software is purchased from either the GSA Schedule or open market at little or no volume discount.



Center for Information Management Infrastructure Current Activities

- **DII Operations Improvements**
 - **Nearing Completion of Benchmarking of DISN**
 - **Initiating Efforts to Obtain Benchmarks for End-User computing**
 - **Defining Metrics and Reports Mandated by DoD-wide DII Capacity Management Policy**
- **IT COTS Product Management (Life Care Activities)**
 - **Supporting DASD(C3IA) in Implementation of Guidance on PC Procurement and MILDEP IDIQ Orchestration**
 - **Developing Acquisition for Enterprise-wide Licenses for PC/LAN Software Upgrades**
 - **Developing ARMS Graphical User Interface and Training**

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In the area of Benchmarking of DII Operations Improvements, we have received drafts from two vendors with their assessment of best commercial practice in telecommunications. We are also midway through our efforts to benchmark the DISN.

We are currently supporting the effort of each MILDEP in procuring their own personal computers by assisting the DASD(C3IA) in their coordination efforts.

To obtain discounts on PC/LAN software not now acquired from IDIQ contracts, we are formulating an acquisition for Enterprise-wide licenses for software upgrades. Some estimates show annual savings from this initiative of roughly \$50 Million. This acquisition should be complementary to requirements contracts that the individual MILDEPS will let. We also intend to create a Central Ordering System to support the software license acquisition and administration, and to assist the Defense agencies in shopping from the individual MILDEP IDIQ contracts

Based on DASD(IM) guidance, \$1M and 10 staff years were reduced from the COTS Products Management Program. No new initiatives will be undertaken in FY94 for COTS hardware or software "life care",



Center for Information Management Infrastructure Planned FY94 Efforts

- **IT Asset Management**
 - **Conduct DoD-wide High-level IT Asset Management Functional Process Improvement**

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We have received a DASD(IM) tasking to identify and assess DoD's information technology assets. These assets include hardware, software, architectures, standards, contracts, process models, etc.

We are now formulating a DISA-wide action plan to resolve issues of scope, magnitude, and prioritization. We are planning to initiate Process Improvement efforts to effect changes in management practices.



Center for Information Management **ISSUES**

- **Perry Memo -- Funding and Manpower Required**
- **Operating Plan and Prioritization**

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Funding levels for acceleration of data standards, Functional Process Improvements , and software reengineering to address implementation of the DepSecDef memo were not included in the original submission of the Operating Plan. We are developing the resource requirements at this time.

Deviation from the Operating Plan requires CIM to respond to DASD(IM) and may jeopardize current agreements based on the Plan that has already been approved.

The DISA Prioritization of CIM projects may conflict with OASD(C3I) information management programs.

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